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AMSAT NEWS SERVICE
ANS-260

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The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

ANS-260 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2023 September 17

Results of the 2023 AMSAT Board of Directors Election

The 2023 AMSAT Board of Directors Election period ended on September 15, 2023.

As a result of the election, Barry Baines, WD4ASW, Jerry Buxton, N0JY, Drew Glasbrenner, KO4MA, and Zach Metzinger, N0ZGO, have been duly elected to a two-year term on the Board of Directors. Frank Karnauskas, N1UW, will serve as an alternate director for a term of one year.

The results of the voting with 388 ballots cast are as follows:

Drew Glasbrenner, KO4MA - 348
Barry Baines, WD4ASW - 347
Jerry Buxton, N0JY - 331
Zach Metzinger, N0ZGO - 295
Frank Karnauskas, N1UW - 131

The membership of the AMSAT Board of Directors for 2023-2024 is:

Barry Baines, WD4ASW
Jerry Buxton, N0JY
Drew Glasbrenner, KO4MA
Mark Hammond, N8MH
Zach Metzinger, N0ZGO
Bruce Paige, KK5DO
Paul Stoetzer, N8HM
Frank Karnauskas, N1UW (Alternate)

Thank you all for participating in this year's election process.

[ANS thanks Jeff Davis, KE9V, AMSAT Secretary, for the above information]

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Papers are now being accepted for the 41st annual AMSAT Space Symposium to be held on the weekend of October 20-21, 2023 at the Sheraton DFW Airport in Dallas/Fort Worth, Texas

Proposals for Symposium papers and presentations are invited on any topic of interest to the amateur satellite community. We request a tentative title of your presentation as soon as possible, with final copy submitted by October 12 for inclusion in the symposium proceedings. Abstracts and papers should be sent to Dan Schultz, N8FGV at n8fgv at amsat.org

[ANS thanks Dan Schultz, N8FGV, AMSAT Symposium Proceedings Editor, for the above information]

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The scheduled crewmember is Jasmin Moghbeli KI5WSL
The ARISS mentor is VE3TBD

Contact is go for: Fri 2023-09-22 16:19:45 UTC 80 deg
Watch for Livestream starting about 15 minutes before AOS at www.ariotti.com
 (***)

Amur State University, Blagoveshchensk, Russia, direct via TBD

The ISS callsign is presently scheduled to be RSØISS
The downlink frequency is presently scheduled to be 145.800 MHz
The scheduled crewmember is Oleg Kononenko
The ARISS mentor is RV3DR

Contact is go for Thu 2023-09-28 08:45 UTC

Comments on making general contacts

I have been seeing a lot of traffic on Facebook and I suspect on other social media sites with people asking why they are not hearing the crew make general contacts. First off the crew is very busy on the ISS and they simply may not have the time to just pick up the microphone and talk. Also, one needs to be aware of their normal daily schedule. I have listed below the constraints that we at ARISS have to follow in order to schedule the school contacts. Hopefully this will help you better schedule your opportunities.

Typical daily schedule

Wakeup to Workday start= 1.5 hours
Workday start to Workday end=12 hours
Workday end to Sleep= 2 hours
Sleep to wakeup= 8.5 hours

The crew's usual waking period is 0730 - 1930 UTC. The most common times to find a crew member making casual periods are about one hour after waking and before sleeping, when they have personal time. They're usually free most of the weekend, as well.

SSTV events are not that often. So please check out https://www.ariss.org/ for the latest information or watch for the ARISS announcements.

And don’t forget that the packet system is active.

As always, if there is an EVA, a docking, or an undocking; the ARISS radios are turned off as part of the safety protocol.

ARISS Radio Status

Columbus Module radios:
IORS (Kenwood D710GA) – STATUS - Configured. Default mode is for cross band repeater (145.990 MHz up {PL 67} & 437.800 MHz down).
* Powering off for Soyuz undocking on Sep. 27. OFF Sep. 26 about 12:20 UTC. ON Sep. 28 about 07:45 UTC.
* Powering off for USOS EVA on Oct 12. OFF TBD . ON TBD.
* Powering off for USOS EVA in Oct (TBD). OFF TBD . ON TBD.
* Powering off for Russian EVA on Oct 25. OFF TBD . ON TBD.
* Capable of supporting USOS scheduled voice contacts, packet and voice repeater ops.

Service Module radios:
IORS (Kenwood D710GA) – STATUS - Configured. Default mode is fo packet operations (145.825 MHz up & down)
* Powering off for Soyuz undocking on Sep. 27. OFF Sep. 26 about 12:20 UTC.

ON Sep. 28 about 07:45 UTC.
* Powering off for USOS EVA on Oct 12. OFF TBD . ON TBD.
* Powering off for USOS EVA in Oct (TBD). OFF TBD . ON TBD.
* Powering off for Russian EVA on Oct 25. OFF TBD . ON TBD.
* Capable of supporting ROS scheduled voice contacts, packet, SSTV and voice repeater ops.

The latest information on the operation mode can be found at https://www.ariss.org/current-status-of-iss-stations.html

The latest list of frequencies in use can be found at https://www.ariss.org/contact-the-iss.html

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors for the above information]

Upcoming Satellite Operations

KI0KB/P will be active on IO-117 (‘GreenCube’) from DM86 in Oklahoma for two passes:

16th September at 0617z & 1034z

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Doug, VA7LM will be active on IO-117 for the final time this year from CO44 on 24th September at 0102z

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The K5Z crew (is it a crew, or just one op?) will be active on IO-117 from DL88 on 25th September at 1517z. I’m sure this is just one of several passes on his/her/their list, but it’s all I know about ATM.

[ANS thanks Ian Parsons, K5ZM, AMSAT rover page manager, for the above information]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

+ 41st AMSAT Space Symposium & Annual General Meeting
October 20-21, 2023
Sheraton DFW Airport Hotel
4440 W John Carpenter Fwy, Irving, TX 75063

+ ARRL Minnesota State Convention
Saturday, October 14
Hennepin Technical College
9000 Brooklyn Blvd.
Brooklyn Park, Minnesota
http://mnconvention.org

AMSAT Ambassador Clint Bradford, K6LCS, says,

"Think a 75-minute presentation on "working the easy satellites" would be appropriate for your club or event? Let me know by emailing me at k6lcsclint (at) gmail (dot) com or calling me at 909-999-SATS (7287)!"

Clint has NEVER given the exact same show twice: EACH of the 150+ presentations so far has been customized/tailored to their audiences.

[ANS thanks Clint Bradford, K6LCS, and AMSAT for the above information]

Satellite Shorts From All Over

+ The space industry has a labor problem that could keep it from reaching its full potential. Space companies are hiring en force. Also, the existing workforce is aging. One study found that only 17% of NASA's workers are under age 35. Competition is ramping up at a time when the number of people graduating with engineering degrees is dropping in the U.S. Welders, machinists and other technical jobs that don't necessarily require advanced degrees are also in demand for companies building rockets and spacecraft. (ANS thanks Axios Space for the above information)

+ The FAA said on Friday, Sept. 8 that SpaceX needs to complete 63 corrective actions identified after the Starship launch mishap in April. Multiple Raptor engines on the rocket's Super Heavy booster failed, and the vehicle lost its steering. An autonomous self-destruct system issued a command to blow up the rocket, but it took longer than expected for Starship to break apart. The rocket finally disintegrated in a ball of flame, but the launch impacted the surrounding area, scattering debris over a wide area. (ANS thanks ARS Technica for the above information)

+ Astronaut Frank Rubio, forced to spend an extra six months aboard the International Space Station because of trouble with his Russian ride home, set a new U.S. single-flight endurance record on Monday, Sept. 11. Launched last September 21, Rubio and cosmonauts Sergey Prokopyev and Dmitri Petelin originally planned to come home in March. But their Soyuz capsule suffered a massive coolant leak in December, presumably due to a micrometeoroid impact. The three now plan to return to Earth aboard a replacement Soyuz ferry ship on September 27 to close out a marathon 371-day stay in space — the first flight longer than a full year by an American astronaut. (ANS thanks CBS News for the above information)

+ The Mars Oxygen In-Situ Resource Utilization Experiment, or MOXIE, on NASA's Perseverance rover has successfully completed a project to produce oxygen from the Martian atmosphere. MOXIE produced 12 grams of oxygen an hour at 98% purity or better, which is twice as much as NASA’s goals for the instrument. On August 7, MOXIE operated for the 16th and final time, having completed all its requirements. The thin Martian atmosphere is 96% carbon dioxide. MOXIE works by separating the oxygen molecules and emits carbon monoxide as a waste product. Bigger and better versions of something such as MOXIE in the future could supply life support systems with breathable air and convert and store oxygen needed for rocket fuel used to launch on a return trip to Earth. (ANS thanks CNN Science newsletter for the above information)

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.

* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor,

Paul Stoetzer, N8HM
n8hm [at] amsat.org